

AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Currently Amended) ~~The PDA as claimed in claim 1, wherein the voltage protection module comprises:~~ A PDA with built-in voltage protection, comprising:

a main device for data processing;

a socket for connecting to an adapter;

a first control module having a first input terminal and a first output terminal, the first input terminal coupled to the socket to receive ~~the~~an input voltage from the adapter, the first output terminal outputting the input voltage when the input voltage is smaller than ~~the~~a preset maximum voltage; and

a second control module having a second input terminal and a second output terminal, the second input terminal receiving the input voltage from the first output terminal, the second output terminal outputting the input voltage to the main device when the input voltage is greater than ~~the~~a preset minimum voltage.

3. (Original) The PDA as claimed in claim 2, wherein the first control module comprises:

a first limiting device for comparing the input voltage with the preset maximum voltage, wherein the first limiting device outputs a first enable signal when the input voltage is less than the preset maximum voltage; and

a first switch device having a third input terminal coupled to the input voltage, a first control terminal, and a third output terminal, wherein the first switch device outputs the input voltage when the first control terminal receives the first enable signal.

4. (Original) The PDA as claimed in claim 2, wherein the second control module comprises:

a second limiting device coupled to the third output terminal for comparing the input voltage from the first control module with the preset minimum voltage, to output a second enable signal when the input voltage is greater than the preset minimum voltage; and

a second switch device having a fourth input terminal coupled to the third output terminal, a second control terminal, and a fourth output terminal, wherein the second switch device outputs the input voltage when the second control terminal receives the second enable signal.

5. (Original) A voltage protection module for limiting an input voltage between a preset maximum voltage and a preset minimum voltage, comprising:

a first control module having a first input terminal and a first output terminal, the first input terminal coupled to the input voltage, the first output terminal outputting the input voltage when the input voltage is less than the preset maximum voltage; and

a second control module having a second input terminal and a second output terminal, the second input terminal receiving the input voltage from the first output terminal, the second

output terminal outputting the input voltage to a PDA when the input voltage is greater than a preset minimum voltage.

6. (Original) The voltage protection module as claimed in claim 5, wherein the first control module comprises:

a first limiting device for comparing the input voltage with the preset maximum voltage, wherein the first limiting device outputs a first enable signal when the input voltage is less than the preset maximum voltage; and

a first switch device having a third input terminal coupled to the input voltage, a first control terminal, and a third output terminal, wherein the first switch device outputs the input voltage when the first control terminal receives the first enable signal.

7. (Original) The voltage protection device as claimed in claim 5, wherein the second control module comprises:

a second limiting device coupled to the third output terminal for comparing the input voltage from the first control module with the preset minimum voltage, to output a second enable signal when the input voltage is greater than the preset minimum voltage; and

a second switch device having a fourth input terminal coupled to the third output terminal, a second control terminal, and a fourth output terminal, wherein the second switch device outputs the input voltage when the second control terminal receives the second enable signal.

8. (Original) A voltage protection device, comprising:

a first limiting device for comparing an input voltage and a preset maximum voltage, wherein the first limiting outputs a first enable signal when the input voltage is less than the preset maximum voltage;

a first switch device having a first input terminal coupled to the input voltage, a first control terminal, and a first output terminal, wherein the first switch device outputs the input voltage when the first control terminal receives the first enable signal;

a second limiting device coupled to the first output terminal for comparing the input voltage from the first switch device and a preset minimum voltage, to output a second enable signal when the input voltage is greater than the preset minimum voltage; and

a second switch device having a second input terminal coupled to the first output terminal, a second control terminal, and a second output terminal, wherein the second switch device outputs the input voltage when the second control terminal receives the second enable signal.